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# NEWSLETTER

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July/August 2008

Project cost estimating data provided by the  
Utah Department of Transportation Engineering Services Division

**This Issue's Featured Estimating Tip**  
**Asphalt Cost and Availability**

Contractors are painfully aware of the limited supply of Hot Mix Asphalt (HMA) in the Rocky Mountain Region. The main supplier for this region is located in Blackfoot, Idaho and has exhausted its winter storage. They cannot provide enough asphalt to supply the demand in the region. They are currently fulfilling commitments to contractors already under contract. Any additional projects that require paving prior to October 15, 2008 may not receive the asphalt or most likely will pay an extreme price in order to import asphalt.

The Blackfoot facility has sufficient asphalt in storage to supply all of UDOT needs but that amount is 15-20 percent of the total amount needed in the entire region including other agencies and local governments. A supply facility is currently being built in Tooele, Utah to prevent this same supply shortage from occurring in the future but will not be fully functional for two more years. Asphalt supply crunch and extreme prices may be observed again in 2009.

The asphalt binder price per ton for 2008 began at \$387. It is projected that the current value of \$688 will drop back to about \$450 per ton for the start of the 2009 season but will rise again as the supply becomes exhausted. This signifies that bid prices for HMA that started 2008 in the \$65-75 range may start the 2009 season slightly higher in the \$75-90 range for large quantities. Maintaining a sufficient supply is crucial to alleviate the price increase and the new facility in Tooele will deal with the shortage issue.

**Rising Prices**  
**Steel, Asphalt Binder, and Crude Oil**

Item	Monthly Rise	12-Month Rise
Asphalt at Refineries	11.7%	52.2%
Concrete Products	0.7%	3.8%
Diesel Fuel	5.7%	85%
Highway and Street Construction	2.9%	18.9%

## Crude Oil

Highway paving contractors are feeling the immediate impact of crude oil prices topping \$130 per barrel. The ENR 20-city average price for asphalt paving oil jumped 3.4%. This follows monthly increases of 1.7% and 2.7% during the previous two months. Three months of strong increases pushed asphalt paving prices 11.1% above the July 2007 level.

ENR- 7/7/08

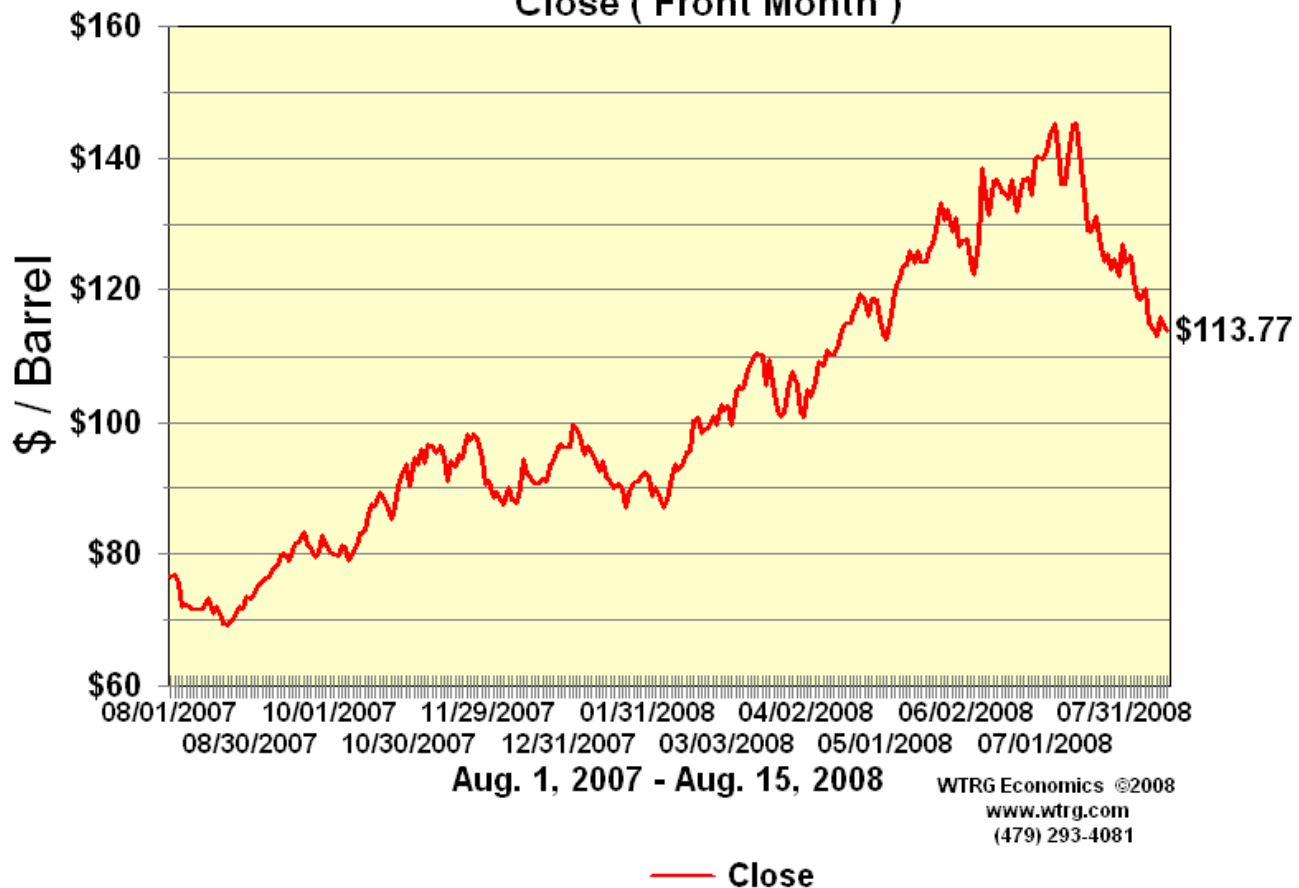
**Percentage Changes in Producer Price Indexes for 2001-2008**

Item	2001	2002	2003	2004	2005	2006	2007	Net 12 Month Change
Crude Oil – Domestic Production	-42.4	60.6	14.3	30.5	49.6	0.1	52.4	105.6

Bureau of Labor Statistics, AGC of America, 7/16/08

August 15, 2008, NYMEX West Texas Intermediate for September delivery closed down \$1.24 at \$113.77 per barrel.

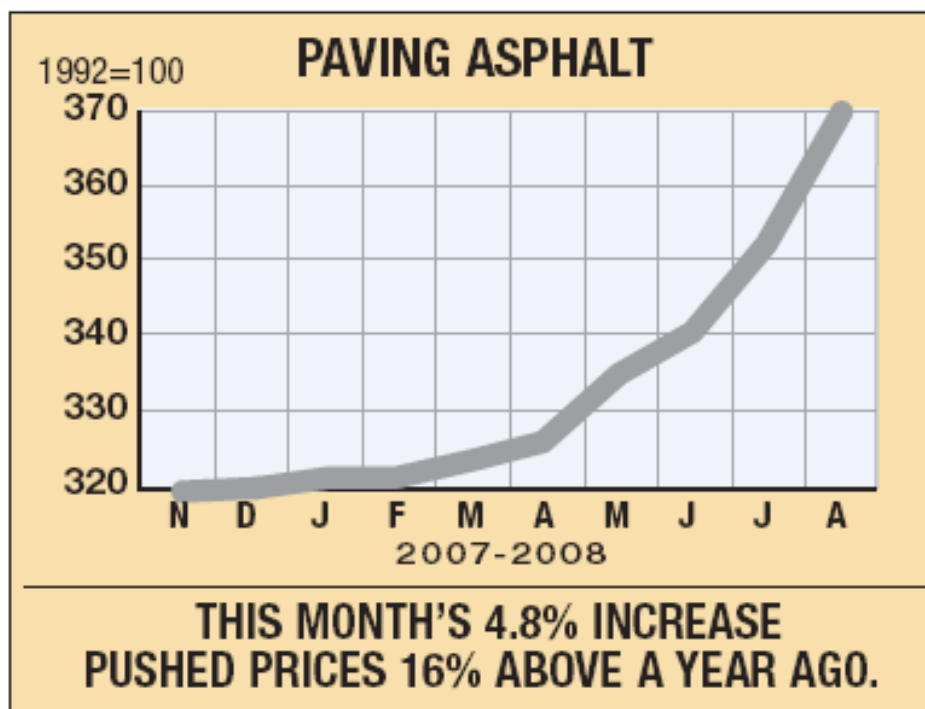
**NYMEX Crude Oil Futures  
Close ( Front Month )**



## Asphalt

It was only a matter of time before record high crude oil prices started to impact asphalt paving costs. Asphalt paving prices are starting to move again after jumping over 25% at the beginning of last year according to the Bureau of Labor Statistics producer price index for asphalt paving products. The PPI for this product showed a 3.5% gain in April over last year's record high. ENR's 20-city average price for asphalt paving oil jumped 4.8% this month and is now up 16.1% above a year ago.

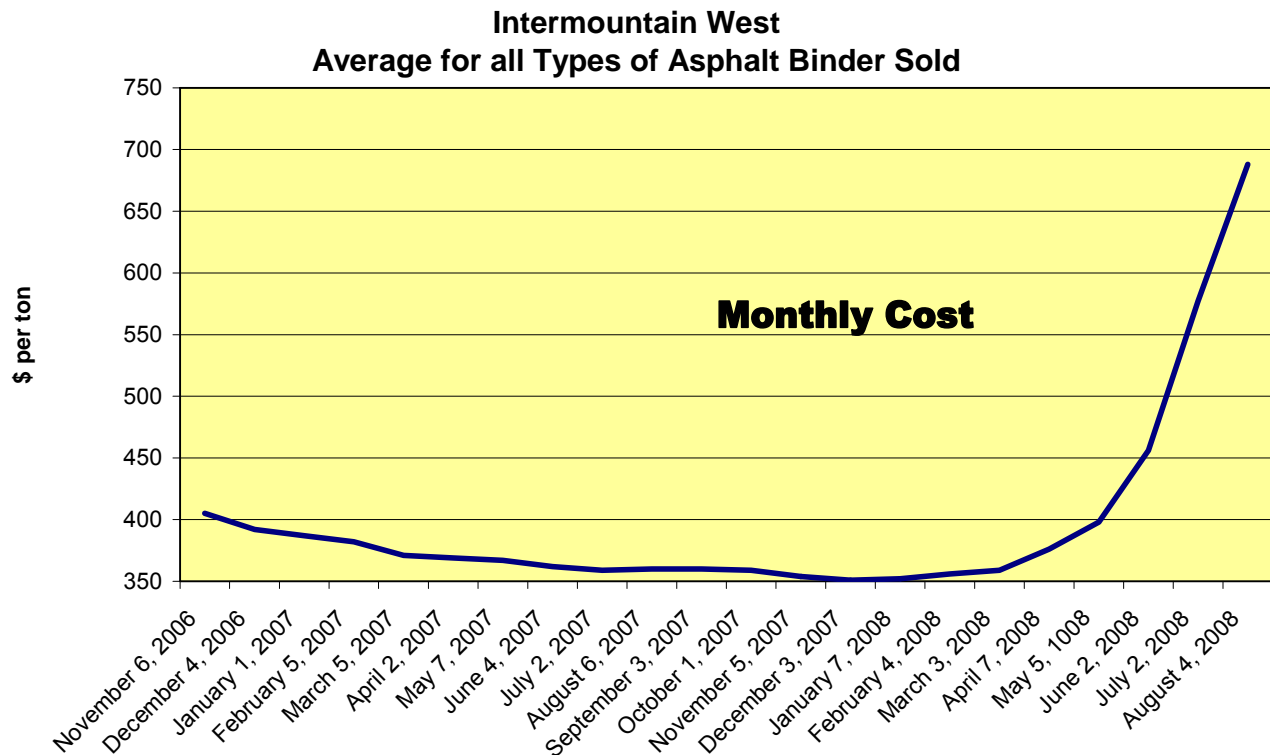
ENR- 8/11/08



**Percentage Changes in Producer Price Indexes for 2001-2008**

Item	2001	2002	2003	2004	2005	2006	2007	Net 12 Month Change
Asphalt at Refinery	-	-	10.0	18.3	17.8	34.9	5.8	52.5

Bureau of Labor Statistics, AGC of America, 7/16/08



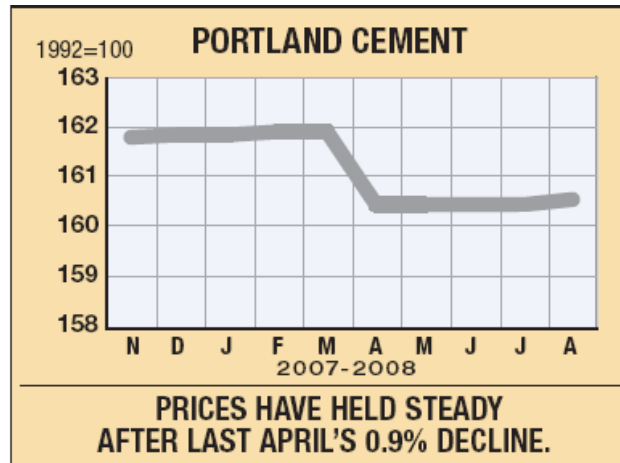
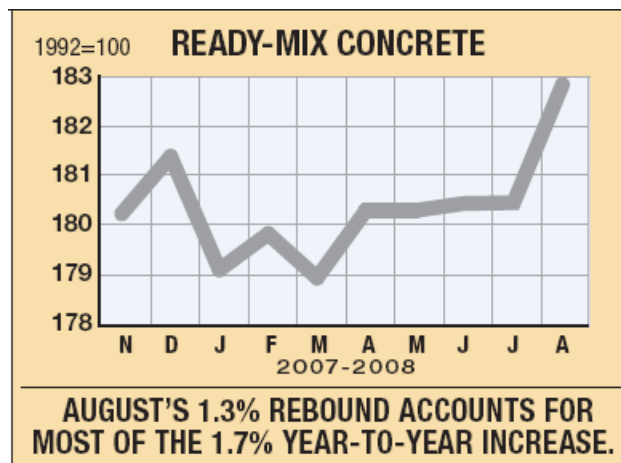
Produced by Utah Department of Transportation Materials Division.  
Based on information from Asphalt Weekly Monitor and Argus Report.

**Note:** This graph is intended to show the direction of asphalt binder costs and not actual costs for asphalt binder.

## Cement

Portland cement prices have shown little movement following strong gains between 2005 and 2007. Cement prices are up just 0.2% for the year.

ENR- 6/2/08



### Percentage Changes in Producer Price Indexes for 2001-2008

Item	2001	2002	2003	2004	2005	2006	2007	Net 12 Month Change
Construction Sand/Gravel/ Crushed Stone	3.3	2.5	2.4	4.3	7.7	9.3	8.6	7.2
Cement	1.0	1.3	-1.1	7.9	12.2	10.5	3.5	1.1
Concrete Products	2.5	-0.3	1.5	7.6	10.1	8.1	3.3	3.8
Ready-Mix Concrete	2.5	-1.1	1.1	8.7	11.3	10.1	3.3	2.9
Precast Concrete Products	0.7	0.3	2.5	6.0	6.0	4.7	4.8	4.7
Prestressed Concrete Products	5.3	1.8	-0.2	8.2	14.3	4.9	1.2	2.4

Bureau of Labor Statistics, AGC of America, 7/16/08

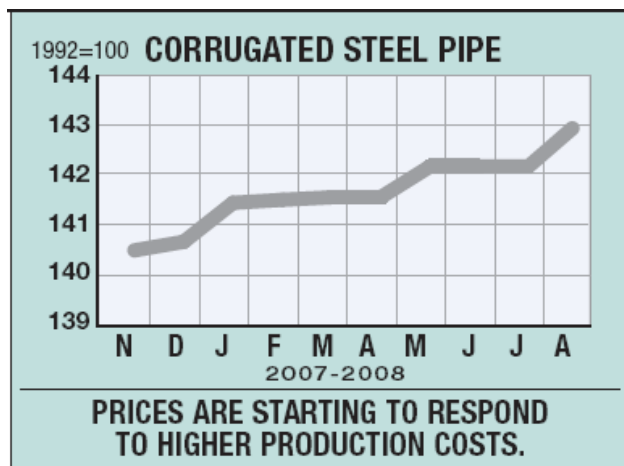
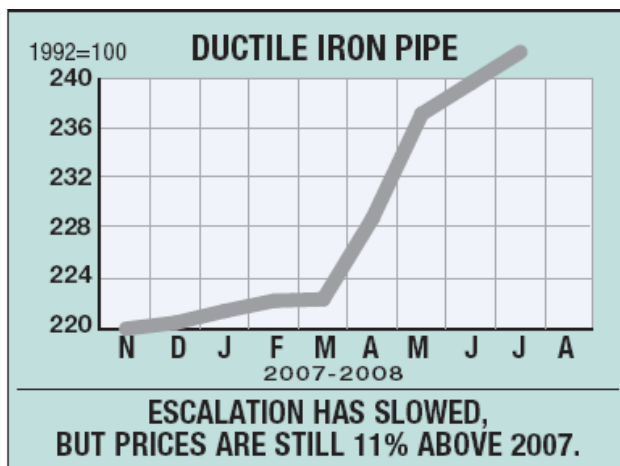
## Pipe

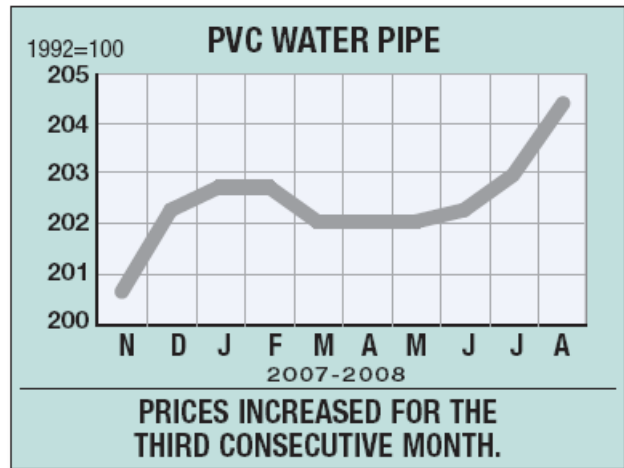
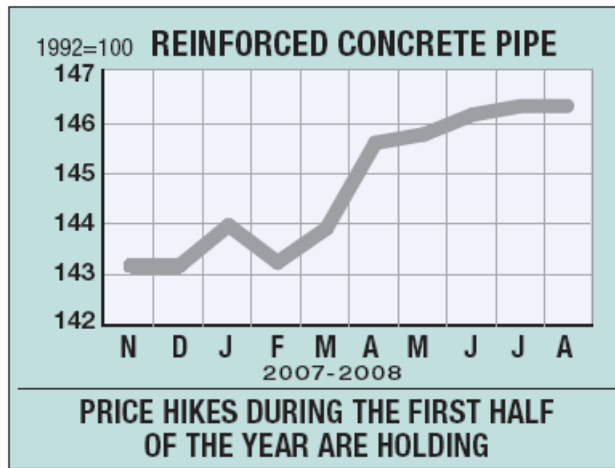
Iron ore prices are soaring along with steel scrap and other metal commodities. Among construction pipe products, ductile iron pipe has been impacted the most. The ENR 20-city average price for the pipe rose 1% this month following monthly increases of 1% in June, 4% in May, and 3% in April. The combined increases pushed prices for 8-inch diameter pipe 11% above a year ago.

ENR - 7/14/08

Prices for ductile iron pipe tracked by ENR are up between 7% and 11% from a year ago, due primarily from the spike in raw-material prices. Weak demand in the PVC water and sewer pipe markets are trumping high oil costs and the annual price increase for PVC pipe is about 2%.

ENR - 8/18/08



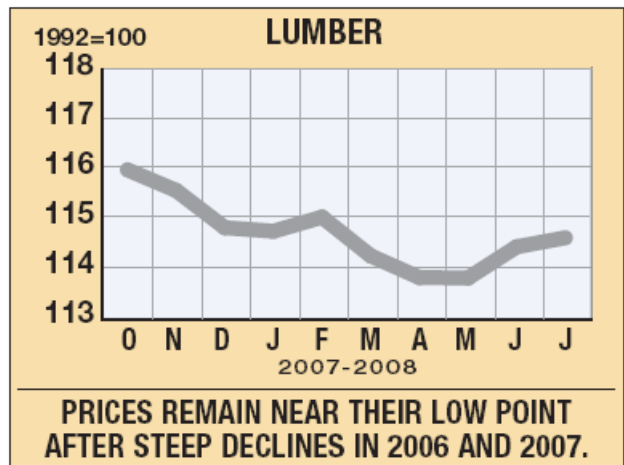
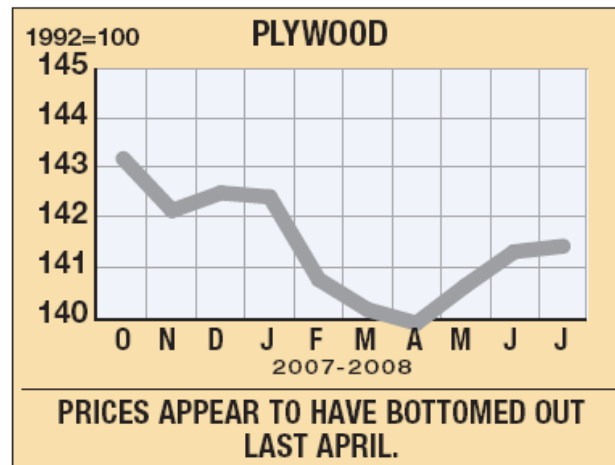


**Percentage Changes in Producer Price Indexes for 2001-2008**

Item	2001	2002	2003	2004	2005	2006	2007	Net 12 Month Change
Concrete Pipe	4.4	1.7	1.4	5.5	7.5	2.5	1.1	12.7

Bureau of Labor Statistics, AGC of America, 7/16/08

## Lumber



**Percentage Changes in Producer Price Indexes for 2001-2008**

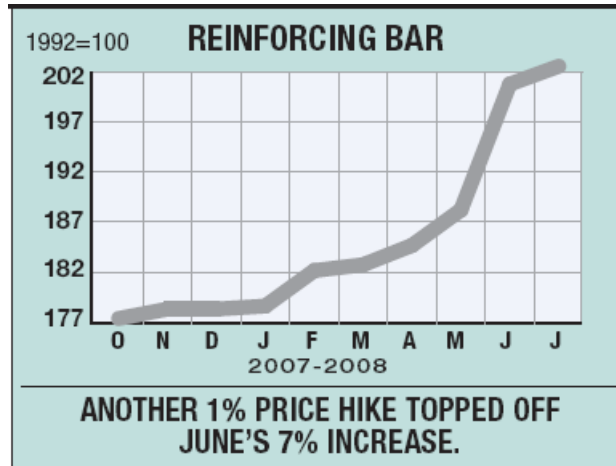
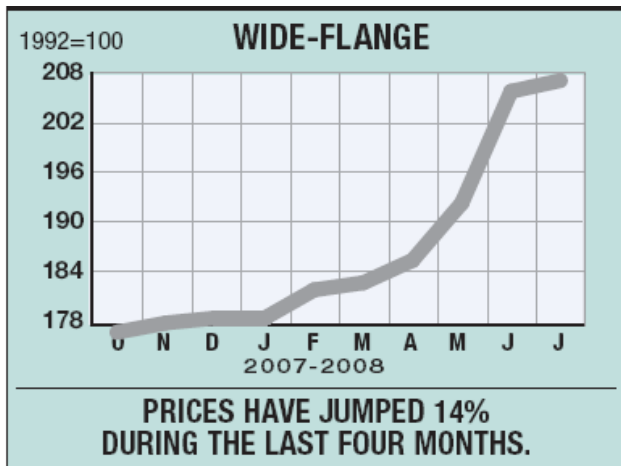
Item	2001	2002	2003	2004	2005	2006	2007	Net 12 Month Change
Lumber and Plywood	-2.9	1.4	13.1	5.0	-1.1	-10.8	-1.3	-2.8

Bureau of Labor Statistics, AGC of America, 7/16/08

# Steel

Producers of concrete reinforcing bar ratcheted up prices another 1% in July following record-breaking price increases during the previous three months (ENR 6/16 p. 61). The string of price hikes has pushed the ENR 20-city average price for grade-60 rebar 16% above July 2007's level. Prices never declined after jumping more than 42% in 2004. The 2004 and 2008 price spikes leaves the ENR average rebar price at about \$42 per 100 lb. Rebar was selling for about \$24 per 100 lb. in July 2003.

ENR – 7/28/08



**Percentage Changes in Producer Price Indexes for 2001-2008**

Item	2001	2002	2003	2004	2005	2006	2007	Net 12 Month Change
Steel Mill Products	-6.1	11.1	1.7	48.8	-3.8	11.6	1.0	30.4
Hot-rolled Bars, Plates, and Structural Shapes	-4.3	2.1	11.3	53.8	-1.0	7.5	8.1	28.1
Steel Pipe and Tube	-3.7	9.1	3.3	66.0	1.2	5.5	-1.9	30.7
Fabricated Structural Metal	-1.3	-2.4	0.1	24.7	2.8	3.6	5.3	14.6

Bureau of Labor Statistics, AGC of America, 7/16/08

## *Estimate Support Meeting Minutes*

July 30, 2008

- ☼ Proposal is being created for cost-based estimating for the regions.
- ☼ Development of parameters for additives.
- ☼ PDBS enhancement development continues.

July 1, 2008

- ~ Cost Estimator position advertised and applicants are being reviewed.
- ~ Prepared information for Systems Planning and Programming to help them estimate better.
- ~ Asphalt binder updates discussed.

June 20, 2008

- ☺ Discussed the status of monitoring the funding versus scope on design-build projects prior to advertising.
- ☺ All regions have received follow-up training from Gary Stanton.

June 5, 2008

- ▶ Steel, asphalt, and crude oil price increases were discussed.

Do you have estimating questions? Call Jason Henrie at 801-957-8605.

Do you have a suggestion for something you would like researched for a future edition of the Estimator's Corner Newsletter? Your suggestions are welcome and make the information in the Newsletter more useful for the readers.

Do you know anyone who would like to receive the monthly Estimator's Corner Newsletter? Please send your suggestions, ideas, questions, and requests to [estimatorscorner@utah.gov](mailto:estimatorscorner@utah.gov) and we will do our best to implement them.



**Percentage Changes in Producer Price Indexes (PPIs) for Construction Materials and Components, 2001-2008**

BLS Series ID		12 months through December--							to June 2008 since--			
		2001	2002	2003	2004	2005	2006	2007	5/08	3/08	6/07	12/03
<b>Table 1: Changes in Consumer, Producer &amp; Construction Prices</b>												
CUUR0000SA0	Consumer price index (CPI-U)	1.6	2.4	1.9	3.3	3.4	2.5	4.1	1.0	2.5	5.0	18.7
WPUSOP3000	Producer price index (PPI) for finished goods	-1.6	1.2	4.0	4.2	5.4	1.1	6.3	1.6	4.0	9.2	26.3
WPUSOP2200	PPI for materials and components for construction	0.0	0.8	3.0	10.1	6.1	4.3	1.8	1.4	4.6	6.8	32.6
PCU236211	New industrial building construction	not available before 2008; series began 6/07							-0.1	0.3	3.1	n.a.
PCU236221	New warehouse construction	not available before 2005							0.0	0.7	4.2	n.a.
PCU236222	New school construction	not available; series began 12/05							1.6	1.4	3.4	n.a.
PCU236223	New office construction	not available; series began June 2006							-0.1	0.3	3.1	n.a.

**Table 2: Changes in PPIs Weighted by Construction Types**

PCUBCON	Inputs to construction industries	-0.9	0.7	3.0	9.1	8.2	4.6	4.5	1.8	5.7	10.4	43.0
PCUBHWY	Highway and street construction	-3.6	1.0	2.6	10.8	14.1	6.2	9.6	2.9	9.1	18.9	71.2
PCUBHVV	Other heavy construction	-2.6	1.0	2.6	13.4	8.8	5.5	6.4	2.5	8.4	15.7	59.9
PCUBBLD	Nonresidential buildings	-0.5	0.7	2.4	9.3	7.4	4.0	4.6	1.7	5.6	10.4	29.3
PCUBRSM	Multi-unit residential	-0.1	0.4	2.7	8.9	7.8	4.9	3.7	1.5	4.6	7.7	38.4
PCUBRS1	Single-unit residential	-0.4	0.6	3.5	7.0	6.9	4.2	2.4	1.3	3.6	5.9	30.9

**Table 3: Changes in PPIs for Specific Construction Inputs**

WPU057303	#2 diesel fuel	-44.7	54.4	13.0	37.9	46.7	2.3	33.9	5.7	18.5	85.0	329.2
WPU05810112	Asphalt (at refinery)	not available		10.0	18.3	17.8	34.9	5.8	11.7	42.3	52.5	222.3
WPU13940113	Asphalt paving mixtures and blocks	not available			4.2	14.4	27.7	1.4	6.7	14.0	17.0	81.6
WPU136	Asphalt felts and coatings	4.6	-0.6	6.3	4.1	15.3	5.0	-2.5	3.6	12.2	15.3	42.6
WPU1361	Prepared asphalt & tar roofing & siding products	5.0	-1.7	5.3	4.6	16.2	5.2	-2.4	3.2	12.8	15.6	44.5
WPU133	Concrete products	2.5	-0.3	1.5	7.6	10.1	8.1	3.3	0.7	1.9	3.8	36.5
WPU1331	Concrete block and brick	2.3	1.6	3.2	4.7	8.1	6.8	3.2	0.6	1.5	2.6	27.8
WPU1332	Concrete pipe	4.4	1.7	1.4	5.5	7.5	2.5	1.1	2.7	3.5	12.7	33.2
WPU1333	Ready-mixed concrete	2.5	-1.1	1.1	8.7	11.3	10.1	3.3	0.5	1.3	2.9	40.1
WPU1334	Precast concrete products	0.7	0.3	2.5	6.0	6.0	4.7	4.8	0.3	3.9	4.7	28.8
WPU1335	Prestressed concrete products	5.3	1.8	-0.2	8.2	14.3	4.9	1.2	0.8	1.1	2.4	35.1
WPU1342	Brick and structural clay tile	5.3	1.9	0.7	3.0	9.4	6.0	-0.2	-0.5	-0.9	-0.8	18.7
WPU072106	Plastic construction products	-2.7	3.1	3.2	7.2	21.6	-0.7	0.3	0.8	2.1	2.8	32.9
WPU137	Gypsum products	0.4	3.4	2.8	20.0	18.8	5.5	-22.2	-0.4	-1.5	-13.8	17.2
WPU1392	Insulation materials	0.4	-1.5	2.0	8.6	2.6	2.1	-3.3	-0.3	-1.1	-4.6	7.9
WPU040111	Lumber and plywood	-2.9	1.4	13.1	5.0	-1.1	-10.8	-1.3	0.9	4.8	-2.8	-5.6
WPU062101	Architectural coatings	2.9	0.6	3.9	5.3	9.2	6.3	4.1	0.1	0.0	4.0	32.3
WPU1017	Steel mill products	-6.1	11.1	1.7	48.8	-3.8	11.6	1.0	8.1	26.3	30.4	121.8
WPU101704	Hot-rolled bars, plates, & structural shapes	-4.3	2.1	11.3	53.8	-1.0	7.5	8.1	4.4	22.8	28.1	134.7
WPU101706	Steel pipe and tube	-3.7	9.1	3.3	66.0	1.2	5.5	-1.9	6.9	16.9	30.7	130.8
WPU102502	Copper and brass mill shapes	-9.5	-1.6	11.6	29.6	31.0	44.4	-3.8	-4.4	-2.7	-0.9	164.8
WPU102501	Aluminum mill shapes	-2.9	-0.9	-0.5	9.9	5.0	12.7	-1.7	0.0	3.1	1.7	36.6
WPU1073	Sheet metal products	-0.8	2.0	0.6	15.2	0.4	6.5	0.4	1.2	5.9	7.5	32.4
WPU107405	Fabricated structural metal	-1.3	-2.4	0.1	24.7	2.8	3.6	5.3	1.6	8.9	14.6	58.0
WPU10740501	Fabricated structural metal for buildings	-1.5	-3.3	-0.1	20.0	3.1	3.3	4.7	1.3	6.8	12.4	48.7
WPU107408	Architectural and ornamental metalwork	-0.1	3.7	0.7	23.5	3.1	4.9	2.8	2.2	8.7	10.8	50.8
WPU107409	Fabricated iron & steel pipe, tube, & fittings	0.6	0.1	1.2	32.6	5.5	-2.8	-1.6	-0.7	6.6	5.4	43.4
WPU1076	Fabricated steel plate	0.6	-1.0	0.6	7.6	0.6	8.6	9.9	-1.6	15.9	22.5	46.3
WPU1079	Prefabricated metal buildings	0.0	4.0	-0.7	35.5	2.0	5.5	1.8	5.4	18.3	25.6	85.2
WPU112	Construction machinery and equipment	-0.1	1.9	1.3	6.0	4.9	3.6	2.2	0.5	0.8	2.7	20.1

**Table 4: Changes in PPIs for Basic Inputs Important to Construction**

WPU056	Crude petroleum (domestic production)	-42.4	60.6	14.3	30.5	49.6	0.1	52.4	4.4	21.2	105.6	337.9
WPU0553	Industrial natural gas	-36.7	12.2	20.3	20.1	31.5	-13.2	-4.6	5.4	18.9	23.7	69.3
WPU066	Plastic resins and materials	-9.8	9.2	6.4	28.6	10.8	-7.8	10.0	0.7	4.2	11.7	52.7
WPU1321	Construction sand/gravel/crushed stone	3.3	2.5	2.4	4.3	7.7	9.3	8.6	0.2	0.0	7.2	38.8
WPU1322	Cement	1.0	1.3	-1.1	7.9	12.2	10.5	3.5	-0.2	-0.4	1.1	40.5
WPU1011	Iron ore	1.5	-1.3	1.6	6.7	15.5	7.5	1.3	0.0	8.1	12.6	50.5
WPU1012	Iron and steel scrap	-5.6	27.8	64.9	50.8	-10.8	2.9	30.4	0.3	44.5	96.9	230.2
WPU101212	Stainless and alloy steel scrap	no data from 1996 until September 2006							-19.7	-19.2	-30.9	n.a.
WPU102102	Copper ores	-19.6	3.6	37.4	65.1	39.3	53.1	-0.9	3.4	5.5	7.3	317.0
WPU102301	Copper base scrap	-17.4	11.2	30.7	34.5	51.9	50.0	1.2	-5.3	1.0	14.4	273.9

Updated 7/16/08 Source: Bureau of Labor Statistics (BLS): [www.bls.gov/cpi](http://www.bls.gov/cpi) for CPI, [www.bls.gov/ppi](http://www.bls.gov/ppi) for PPIs

Compiled by Ken Simonson ([simonsonk@agc.org](mailto:simonsonk@agc.org)), Chief Economist, Associated General Contractors of America, [www.agc.org](http://www.agc.org)